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Title: **JP2001060465A2: BATTERY**

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Inventor(s): **IWATA MIKIO**

Applicant/Assignee:  
**JAPAN STORAGE BATTERY CO LTD**  
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Issued/Filed Dates: **March 6, 2001 / Aug. 23, 1999**

Application Number: **JP1999000234976**

IPC Class: **H01M 10/50;**

Priority Number(s): **Aug. 23, 1999 JP1999000234976**

Abstract:



**Problem to be solved:** To efficiently inhibit the heat generation by drawing out a terminal connected to an electrode of a generating element to the external through a cooling part in a case, and directly cooling the terminal by sending a coolant to the cooling part.

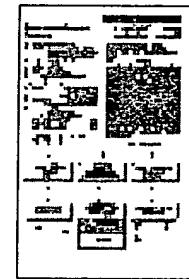
**Solution:** In a lithium ion secondary battery 1, a positive electrode collector 4 is connected and fixed to a positive electrode terminal 6 formed by an aluminum rod member, and a negative electrode collector 5 is connected and fixed to a negative electrode terminal 7 formed by a copper rod member, respectively by caulking or the like. A battery case 3 is made of a stainless steel material, and consists of a case body 3a and a case lid 3b, and the case body 3a stores a generating element 2. The circumference of a partitioning plate 8 made of a stainless steel material, is sealed and fixed to an upper end of the case body 3a, and forms a space as a cooling part between the case body 3a and the case lid 3b. The positive electrode terminal 6 and the negative electrode terminal 7 are drawn out to the external through the cooling part. A coolant such as the insulating oil or liquid paraffin is circulated through an inlet 3c and an outlet 3d from an external cooling device.

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Other Abstract Info: DERABS G2001-277816 DERABS G2001-277816

Foreign References: No patents reference this one



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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **11234976**(51) Int'l. Cl.: **H01M 10/50**(22) Application date: **23.08.99**

(30) Priority:

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(84) Designated contracting states:

(71) Applicant: **JAPAN STORAGE BATTERY CO LTD**(72) Inventor: **IWATA MIKIO**

(74) Representative:

**(54) BATTERY****(57) Abstract:**

**PROBLEM TO BE SOLVED:** To efficiently inhibit the heat generation by drawing out a terminal connected to an electrode of a generating element to the external through a cooling part in a case, and directly cooling the terminal by sending a coolant to the cooling part.

**SOLUTION:** In a lithium ion secondary battery 1, a positive electrode collector 4 is connected and fixed to a positive electrode terminal 6 formed by an aluminum rod member, and a negative electrode collector 5 is connected and fixed to a negative electrode terminal 7 formed by a copper rod member, respectively by caulking or the like. A battery case 3 is made of a stainless steel material, and consists of a case body 3a and a case lid 3b, and the case body 3a stores a generating element 2. The circumference of a partitioning plate 8 made of a stainless steel material, is sealed and fixed to an upper end of the case body 3a, and forms a space as a cooling part between the case body 3a and the case lid 3b. The

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